## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference R04051PCT	FOR FURTHER ACTION as w	see Form PCT/ISA/220 ell as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/JP2004/005236	13.04.2004	14.04.2003					
Applicant RICOH COMPANY, LTD.							
to Article 18. A copy is being transmitte	ed to the International Bureau.	ority and is transmitted to the applicant according					
This international search report consists  It is also accompanied by a	of a total of sheets.  copy of each prior art document cited in the	is report.					
Basis of the report							
a. With regard to the language, th	ne international search was carried out on aless otherwise indicated under this item.	the basis of the international application in the					
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).							
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.							
2. Certain claims were four	nd unsearchable (See Box II).						
3. Unity of invention is lack	ting (See Box III).						
4. With regard to the title,							
the text is approved as submitted by the applicant.							
the text has been established by this Authority to read as follows:							
	•						
	•	* * *					
5. With regard to the abstract,							
the text is approved as su	bmitted by the applicant.						
		rity as it appears in Box No. IV. The applicant earch report, submit comments to this Authority.					
6. With regard to the drawings,							
a. the figure of the drawings to be	published with the abstract is Figure N	o3					
as suggested by the							
as selected by this Authority, because the applicant failed to suggest a figure.							
`	Authority, because this figure better charac	erizes the invention.					
b. none of the figures is to be	e published with the abstract.	_					

#### INTERNATIONALSEARCHREPORT

International application No.
PCT/IP 2004/005236

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A. CLAS	SSIFICATIONOFSUBJECTMATTER					
Int.Cl <sup>7</sup> H02M 3/07, G05F 1/56						
According to	According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED						
	ocumentation searched (classification system followed by	classification symbols)				
Int.Cl <sup>7</sup> H02M 3/00-3/44, G05F 1/00-1/70						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	propriate, of the relevan	t passages	Relevant to claim No.		
A	JP 4-127307 A(FUJITSU LIMIT LIMITED) 28.04.1992, line 19, column column 5, Fig 7(Family:none	a 4 to line 1		1-5		
A	JP 11-8969 A(NEC IC MI-COM 12.01.1999, line 18, column column 6, Fig 1(Family:none	n 5 to line 2		1-5		
A	JP 5-111241 A(FUJITSU LIMITALIMITED) 30.04.1993, line 29, column column 3, Fig 1(Family:none	n 2 to line 6		1-5		
<u> </u>	cuments are listed in the continuation of Box C.  See patent family annex.					
"A" docume	cial categories of cited documents:  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
"E" earlier	application or patent but published on or after the inter-	"X" document of partic	cular relevance; the	claimed invention cannot		
"L" docume	al filing date  the thick may throw doubts on priority claim(s) or which to establish the publication date of another citation or other reason (as specified)	inventive step who	en the document is cular relevance; the	claimed invention cannot		
means "P" docume	ent referring to an oral disclosure, use, exhibition or other ent published prior to the international filing date but later	combined with combination being	one or more othe g obvious to a perso	step when the document is r such documents, such on skilled in the art		
	P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed  ate of the actual completion of the international search  Date of mailing of the international search report					
	07.07.2004			7. 2004		
Name and mailing address of the ISA/JP  Authorized officer  3V 29			3V 2917			
•	Japan Patent Office	SAKURADA 1	Masaki			

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#### INTERNATIONALSEARCHREPORT

International application No. PCT/JP2004/005236

C (Continuat	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant	int passages	Relevant to claim No.
PA	JP 2003-333831 A(RICOH COMPANY, LTD.) 21.11.2003, line 20, column 5 to line column 11, Fig 1(Family:none)	22,	1-5
PA	JP 2003-186554 A(RICOH COMPANY, LTD.) 04.07.2003, whole document & <u>US 2003/0128489</u> A1 & CN 1425962 A		1-5
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